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TRIM SYSTEM

a emption and Maintenance Instructions

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	Page	
DESCRIPTION	5	
A. Purpose and Basic Characteristics	5	
B. General Description and Description of Individual	L	
Units	5	
1. General Description	5	
2. Description of Individual Units	7	
C. Control Instruments	11	
L. MAINTENANCE INSPRUCTIONS	13	
A. General Supervision and Upkeep	13	
B. Preparatory Steps	13	
1. Initial Position	13	
2. Taking Water into Trim Panks	14	
3. Pressurizing the Trim Tanks with Intermediate		
Pressure Air	15	
C. Starting, During-Operation Haintenance and Lucy-		
ping	1.5	
1. Water Transferring	1.5	
2. Draining the Table with Purp	1.7	
3. Draining the Tames from Ingertaging Probume		
kir	+ 8 (
D. Troubles and Asawii		
3. Preventive Inspections and appared		
1. Daily Imageosion		
2. Weekin Inspectato		
4. Inspectant deep Three deviations		
5. Inspection sure to booking the dispersional		
6. Estate to a martine Routile Resolution		
7. Green, the Pipe Lines for Inchibes, III		
preniices:		
. Trim System Seasonathe Die tron		
. Split Sounding Rou for Ford Taxon		
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I. <u>Jadditti i</u>

A. PURPOSE AND EASIN CHARACTERISTICS

The function of the trin upatem is so control the fore-and-aft balance, i.e. so remove the triuming moments which occur due to consumption of variable weights in the course of cruising.

Thus the trim system, together with the water system and the intermediate pressure air system is used for:

- (1) flooding the wrim tanks with sea water either by gravity or with the aid of the bilge pump;
- (2) draining the trim tanks outboard with the aid of the bilge pump or with intermediate pressure air;
- (3) transferring water from the form thin tanks to the aft trim tanks and vice versa with intermediate probable air. The pipe line probables of over each jet, Aud and back, and steel place, the public and other contents.

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Description Ret		Location			Remarks	
Description	volume,	compartment	side	fraces		
Fore trim	4.22	Compart. I,	Port	10-14		
tank No.2		outside the			2.252	
		hull				
Aft trim	. 4. 16	Compart-	Starboard	116-124		
tank No.3		ment VII				
Aft trim	4.16	Compart- ment VII	Port	116-124		

To measure the amount of water in the tanks, each tank mounts sounding rods 31, 32, 33 and 34.

Measurement of the amount of water in the tanks may be done irrespective of pressure in the tanks.

To protect the tanks from excessive pressure, aft trim tanks Nos 3 and 4 are equipped with safety valves 17 and 18; sefety valves 15 and 16 are mounted on the pipe line before fore tria tanks Nos 1 and 2.

These valves are adjusted for a pressure of 4.7 kg//sq.cm, and sealed?

(a) Dater Trim Line

This consists of two lines.

One of the lines is used to connect the trim tanks arranged on the port side (fore tank No.2 and aft tank No.4), while the other is used to connect the tanks arranged on the star-board side (fore tank No.1 and aft tank No.3).

Sited in compartment III are angle shut-off value and 22.

For flooding and draining the tames to receive is connected with the shipboard death manual valve manifold 12.

Mounted on the pipe rimited from tank No.2 is water flowered and the valve 20 to ait trim taken in.

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Before and alter the water clowneters there are strai+	
ners to product the flowing warm from ployling.	
The paper running to the summa mount walves 1, 2, 3 and	
4 whice are used to discomment the tarks in an emergency.	
These valves are scaled in the open position. Inside the tanks	
the pipes are lowered to the bottom.	
(b) Air Trim Line	
This consists of two lines connecting the fore and aft	
tanks of both cites. The working precoure of air in the pipe	
lime is equal to A. i htt/sq.om.	
Air rupply to but tria place line is effected from com-	
partners 177 from the intermediate prescurs air system	
partition in the first pressure-religing valves 10 and	
on the state of the control of the state of	
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(a) App Journal (silve a mark - 1)

Control value 19 is much to Jeal air to the tanks and to vent seem.

Body 38 of the coutrol valve is made of brass and it has four pipe unions and two cookers.

Two gips unless are used to supply air to the tanks, the other two being used to vent the tanks into the compartment are to receive the pressure gauge. Screwed into the Lockets are the pressure-reducing and safety valves. The safety valve is adjusted for a pressure of 4.7 kgf/sq.cm.

Taper bronze plug 39 with two channels is lapped in bo-

The stem of the plus where it extends from body 38 is sealed with packing Au.

The plug is burned with the aid of wrench 35.

Control valve 20 is identical to control valve 19 in the control valve.

(b) Ellander (Joseffin, 2)

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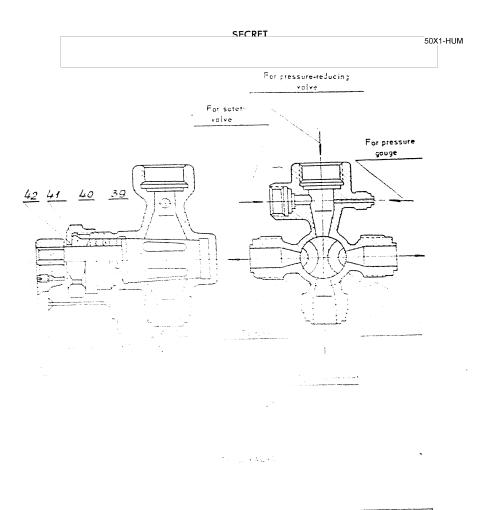
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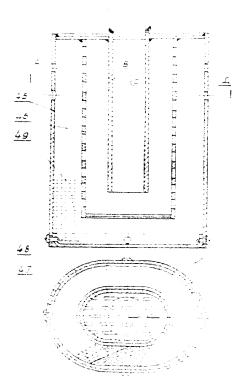


Fig. 1 Hoppings

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45	Itromany bleeve
	Cover
43	Screw Mars
3.	Metry a ge

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other division to indicate the amount of water in the tanks, in litres. Sounding rod plug 52 has openings to bleed the air.

The flanged joint of the split casing of the sounding rod is packed with paronite gasket 66.

The shut-off valves are made of bronze; valve plates 56 are packed with rubber gathets 57. Valve stems 60 are packed with rubber rings 61. ane valves are opened through the linkage running from pedal 65. Springs 59 are provided to return the valve plates and the pedal to the initial position.

The linkage of the sounding rod consists of one or two (for the sounding rods in the split casing) tappets 63 and coupling 62. To ensure independent opening of the upper and lower valves, the parts of the linkage are assembled with a clearance.

The total length of the linkage is adjusted with coupling 62. The amount of water in the tanks is determined as follows: by pressing pedal 65 the upper and lower valves get opened thus simultaneously communicating the upper and lower portions of the tanks with the interior of sounding roll casing 53. In 20 - 30 seconds release the pedal and start slowly turning plug 52. After the pressure has completely relieved through the bored openings in the plug, turn out the plug and retove the sounding rod.

The control of the property of the control of the control industrial relative to the control of the control of

The water flowmever in a waver flowmeth to 30°C.

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i. <u>Park din Glund</u>

the pressure of a constitute of the 5 are installed on the air pipe line in comparatent ill and are used to check the pressure in the arim to sto which shall be within 3 to 4.5 kpr/sq.om shear cratching the area transferring water.

The finit value measured by the pressure gauge is 10 kgr/sq.om, the red line is against 4.5 kgr/sq.om.

3. Sounding Rods

These are used to indicate the amount of water in the trim tanks irrespective of presence of air in them.

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For triming the cultivine tropy a La stude wherenes with the instructions for consumption and compensation of variable weights.

A. GENERAL SUPERVISION AND UPENIP

With the trim system in operation:

- 1. See to it that the pipe lines and littings are perfectly tight.
 - 2. See to it that all the valves are easy to get at.
 - 3. Keep the nameplates in good order.
- 4. Check to see that the pressure gauges and safety values are sealed.

Upon expiration of the guaranteed period of the control instruments or in case they produce wrong readings, they shall be sent for checking or replaced with new ones.

- 5. Chack the pipes for corrosion, cracks and honeycombs.
- 6. Keep the strainer meshes in good order. Not less than once a year and before a protracted cruising clean them.
- 7. Every time after disassembly and once a year irrespective of disassembly check the water and air pipe lines for tightness under a hydraulic pressure of 4.5 kgf/sq.cn.
 - B. PREPARATORY STEPS (See Appendix 1)
 - 1. Initial Position
 - 8. The tanks are drained and pressure relieved.
- 9. Valves 1, 2, 3, 4, 5, 6, 7 and 8 are sealed in the OPEN position.
 - 10. Control valves 19 and 20 are shut.
- 11. Valve 9 before cruising shall be open and shall be left open during cruising only.
- 12. The rest of the valves are shut and are to be opened for fulfilment of separate manipulations, after which they shall be shut again. The sounding rods are screwed and packed.

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2. Taking Water into Trim Tanks

When running on the surface, sea water flows by gravity into fore trim tanks No.2 and aft trim tank No.3 through water flowmeters 24 and 23.

In case of necessity, the tanks may be flooded with the aid of the bilge pump.

Prior to taking water into the tanks, prepare the drainage system proceeding in accordance with the Drainage System Operating Instructions.

Water may be taken into each tank separately or simultaneously into both the tanks.

For independent filling of trim tank No.2 with water, proceed as follows:

- 43. Open the valve of the two-valve manifold 12 bearing the American poor the Tanks (INTOEPENTHE INCTEPHE NEBO-
- 18. Set the indicator of control valve 20 to the VENTING OF BOX AND SECOND POSICION (BENTAURIUM HOC BOXIVX KOPMA).
- of water riches in strict adherence with operating instructions for the shipboard drainage system.

For independent filling of trim tank No. 3 with water, proceed as follows:

- 16. Unseal and shut valve 1.
- 17. Open the valve of the two-valve manifold 12 bearing the inscription STARBOARD TRIM TANKS (EWGEPHITHED UNCTEPHE MPABOFO EOPTA).
 - 18. Open valve 21.
- 19. Set the indicator of control valve 19 to the VENTING OF STERN, AIR TO BOW position (BEHTWIRHIM HOPMA BOSIDYN MOC)

Watching water flowmeter 23, take the required amount of the proceeding in about all a with the operating instructions for the abliphoral drainage system.

When fulling trim tanks Nos 2 and 3 simultaneously, do routering:

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- 21. Open the valves of two-valve manifold 12.
- 22. Open valve 21.
- 23. Set the indicator of control valve 20 to the VENTING OF BOW, AIR TO STERN position: set the indicator of control valve 19 to the VENTING OF STERN, AIR TO BOW position.
- 24. Watching water flowmeters 23 and 24 take the required amount of water proceeding in accordance with the operating instructions for the shipboard drainage system.
- 25. After reception of water into trim tank No.3 or into trim tanks Nos 2 and 3, open and seal in this position valve 1.
- 26. After reception of water into the trim tanks (Item "b", Section "B"), stop feeding water into the tanks proceeding in accordance with the operating instructions for the shipboard drainage system.
 - Notes: 1. Futheron water taken into tanks Nos 2 and 3 shall be distributed in accordance with the instructions for the variable weights consumption and compensation.
 - 2. Sea water may be also taken into tanks Nos 1 and 4; in this case the amount of water is checked by the sounding rods only.

3. Pressurizing the Trim Tanks with Intermediate Pressure Air

For pressurizing the tanks with air, feed the compressed air into the tanks filled with water to create a pressure of 4.5 kgr/sq.cm inside them.

Prior to feeding the air into the tanks prepare the intermediate pressure air system, proceeding in accordance with the operating instructions for this system.

Feed the air to tanks in pairs: to Nos 2 and 3 or Nos 1 and 4,

Then feeding the min thus wants Nos 2 and 3, proceed as follows:

] - 27. Set was undicated of sontrol valve 20 to the AIR TO BOW - VENTING OF STURN placement (EDS)OFK HOS - SUBTRUFFINE

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KCPMA) and the indicator of convent value () to the AIR TO STIRM, VENTING OF BOW position (DOC TON MOTIVA - STRIMMENT MOC).

28. Slovly open pressure-reducing values 10 and 11 watch-ing pressure gauges 27 and 28 to one the pressure rising.

When feeding the air invo tasks Nos 1 aml 2, do the following:

- 29. Set the indicator of control valve 20 to the AIR TO STERN, VENTING OF BOW position and the indicator of control valve 19 to the AIR TO BOW, VENTING OF STERN position.
- 30. Slowly crack pressure-reducing valves 10 and 11 watching pressure rising by pressure gauges 27 and 28.
 - CAUTIONS! 1. See to it that the pointers of pressure gauges 27 and 28 should not overshoot the red line (4.5 kgf/sq.cm).
 - 2. DO NOT USE the aft tank for trimming the submarine when water from it is taken for cooling the motor_driven compressor.
 - 3. If pressure in trim tank No.3 or in trim tank No.4 was reduced to 2 kgf/sq.cm, to cool the motor-driven compressor with water from the tank, pressurize the tank to a pressure of 4.5 kgf/cm after disconnecting of the motor-driven compressor.
 - C. STARFING, DURING—OPERATION MAINTENANCE AND STOPPING
 - 1. Water Transferring

The preset trim is maintained by transferring water from the fore trim tanks to the aft ones or vice versa.

When transferring water from the fore tanks to the aft ones, proceed as follows:

- 31. Set the indicators of respective control valves 19 or 20 to the AIR TO BOW VENTING OF STERN position.
 - 32. Open valves 21 or 22.

When transferring water from the aft tanks to the fore ones, proceed as follows:

16

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- or 20 to the AIR TO STEAM VANTING OF BOW position.
 - 34. Open by-pass valves 21 or 22.
 - N o t e s: 1. Check the amount of water transferred by water flowmeters 23 and 24.
 - Watch pressure gauses 27 and 20 to check pressure drop in the tank from which water is transferred and feed air to this tank as necessary.

2. Draining the Tanks with Pump

The tanks are drained with the help of the bilge pump.

Prior to draining the tanks, prepare the water pipe line
system proceeding in accordance with the operating instructions for the shipboard drainage system.

When draining No.1 tank:

- 35. Open the valve of two-valve manifold 12 bearing the inscription STARBOARD TRIM TANKS.
- 36. Set the indicator of control valve 19 to the VENTING OF BOW AIR TO STERN position.
- 37. Pump out water proceeding in strict adherence with the operating instructions for the shipboard drainage system.

When draining No.2 tank:

- 38. Open the valve of two-valve manifold 12 bearing the
- 39. San the indicator of control valve 20 to the VENTING 1900 410 TO STERN position.
- -0. Proof but water proceeding in strict adherence with the opening instructions for the shipboard drainage system.

The Assistant Po.3 Jank:

- --- Thisanl and shut valve 1.
- W2. Open the valve of two-valve manifold for the protect of a contribution and sparses STAREGARD TRIM TARGE.
 - 45. Open valve 21.
- as. Set the indicator of control the control to the second

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45. Pump out water proceeding in strict adherence with the operating instructions for the chipbouri training system.

When draining No. 4 tank:

- 46. Unseal and shut valve 2.
- 47. Open the valve of two-valve manifold 42 bearing the inscription PORT TRIM TANKS.
 - 48. Open valve 22.
- 49. Set the indicator of control valve 20 to the VERTING OF STERN AIR TO BOW position.
- 50. Pump out water proceeding in strict adherence with the operating instructions for the shipboard drainage system.

 On completion of draining, bring the system to the initial position.

3. Draining the Tanks with Intermediate Pressure Air

The trim tanks may be blown with compressed air in an emergency at a depth not below 40 $\ensuremath{\text{m}_{\bullet}}$

Prior to draining the tanks, prepare the shipboard dranage system and the intermediate pressure air system.

To drain the tanks with intermediate pressure air, bring the fittings on the water pipe line of the tank to be drained to a position in accordance with the directions outlined under Item "b" of the Section "C", after which:

- 51. To drain tanks Nos 1 and 2, set the indicators of control valves 19 and 20 to the AIR TO BOW VENTING OF STERN position.
- 52. To drain tanks Nos 3 and 4, set the indicators of control valves 19 and 20 to the VENTING OF BOW AIR TO STERN position.
- 53. Slowly crack pressure-reducing valve 10 or 11 dependit on the tank to be drained and watch pressure gauges 27 and 28 to check the pressure lest the pointers of the pressure gauges should overshoot the red line against the division of 4.5 kgf/sq.cm.
- 54. On completion of blowing bring all the fittings except for the control valves to the initial position. Control

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values 19 and 20 after the pressure has been relieved from the tank shall be pot to a position to should which or the came block.

D. INCUBLES AND RESEDIES

No.	Symptom or dif- ficular	Condition may be due to	Correction
ing.	Gland packings of valves and cocks leaky	Nuts tightening gland bushes loose. Gland packing worn	Tighten up nuts of glands. Re- place gland pack- ing
2	Valves leaky	Uneven wear or damage of fit- ting surface of plates or sad- dles	Lap valve plates
3	Air leaks through	Plugs untignt- ly fitted in body Uneven wear or damage to lapped surface of plugs or bodies	Fighten up glands Lap cock plugs
÷	Sounding rods produce wrong readings	Packing rings or gasket worn; spring defective	mings, galaets
5	Pipe joinus un- tight ilanged joinus	Huts loose. Thread or bolts or nuts dessued Jasket torn	Tiction up mais, acplase colis or note Raplece gasket
€	Union joints	Nuts loose, Gas- ket torn	Tighten up nuts. Replace gasket
7	No water flows	Straining meshes clogged	Clean strainers

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- I. POUR TITE INSPIRED IN AP STEELS
- 1. Daily Inspection .
- 55. Inspect the pipe lines, fittings and the control instruments to make sure that they are in good order and perfectly tight and all the friction surfaces of the fittings are properly lubricated.
- 56. Make sure that the seals are present on the pressure sauges and safety valves.
- 57. Work out all the fittings except for those which are sealed.

2. Weekly Inspection

Perform the procedures of daily inspection and in addition do the following:

58. Coat all the friction parts of the fittings with a lubricant, work out sticky valves.

3. Monthly Inspection

- Perform the procedures of weekly inspection and in addition do the following:
- 59. Turn and work out the sealed fittings after which seal them again.
- 60. Check to see that the water flowmeters produce correct readings and the air control valves are perfectly tight.

4. Inspection Every Three Months

Perform the procedures of the monthly inspection and in addition do the following:

- 61. Pop the safety valves.
- 62. Inspect the parts of the special sounding rods.
- 63. Disassemble, clean and wash the parts of the inner than chambers of the water flowmeters.

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5. Inspection aurin Depicts the Cair

- 54. Replace the Gabbota of the control of the acceptally cumder the working predoute.
 - 65. Clean, paint and test for tigotness the trin tanks.

6. Inspection during Routine Repair

- 66. Perform the procedures of the inspection carried out every three months and in addition do the following:
- 67. Disassemble, inspect and repair, if necessary, the control valves.
- 68. Disassemble, inspect, repair and adjust the air and water safety valves.
- 69. Check the assembled water and air pipe lines for tightness under hydraulic and air pressure, respectively.

7. Checking the Pipe Lines for Tightness

To check the pipe lines of the trim system for tightness, proceed as follows:

- 70. Bring the system to the initial position.
- 71. Prepare the pipe line to be tested proceeding in accordance with Table 2.
- 72. Fill the section of the pire line to be checked with water.
- 73. Check the simples like for these with intermediate pressure air fel to the sect on to the from the intermediate pressure spaces through the size of the section of the section to the section of the
- 74. Screw the page and on of the supply . This running from the hydraulic case ... disate in the Tale .
- 75. Create a require pressure in the second checked and watch the pressure grage.
- 76. Oneca the analysis and the joints of the state of under check for the state of follows:
- (a) air file that by coating that with scapsuds:
- (b) water ints for leakage for 15 minutes by watching th

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5. Inspection turks Describe the Chin

- 64. Replace the grade of the control of the working pressure.
 - -65. Clean, paint and test for tigalness the crim tanks.

6. Inspection during Routine Repair

- 66. Perform the procedures of the inspection carried out every three months and in addition do the following:
- 67. Disassemble, inspect and repair, if necessary, the control valves.
- 68. Disassemble, inspect, repair and adjust the air and water safety valves.
- 69. Check the assembled water and air pipe lines for tightness under hydraulic and air pressure, respectively.

7. Checking the Pipe Lines for Tightness

To check the pipe lines of the trim system for tightness, proceed as follows:

- 70. Bring the system to the initial position.
- 71. Prepare the pipe line to be tested proceeding in accordance with Table 2.
- 72. Fill the section of the pipe line to be checked with water.
- 73. Check the air pipe line for tightness with intermediate pressure air fed to the section to be checked from the intermediate pressure system through valve 9.
- 74. Screw the pipe union of the supply pipe line running from the hydraulic ram as indicated in the Table.
- 75. Create a required pressure in the section to be checked and watch the pressure gauge.
- 76. Check the fittings and the joints of the section under check for tightness as follows:
- (a) air fittings and joints by coating them with soap-
- (b) water fittings and joints for leakage for 15 minutes by watching the pressure gauge.

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77. Test the sections of the pipes from the weld-ons on the tanks as far as the respective values together with the tanks under a pressure indicated in the record of compartments, tanks, markeles and hatches.

- Notes: 1. Test pressures for the pipe lines are indicated in the diagram (See Appendix 1).
 - 2. When supplying pressure through valve 9, be careful lest the pressure should rise above the specified value.
 - When tenting the tanks, see to it that the sounding rods on the tanks are removed.

CAUTION! Safety valves 13 - 18 and pressure gauges 27 and 28 whose working pressure is below the test pressure shall be removed and the pipe unions shall be blanked off during test.

Table 2

No.	Pipe line section	Valves in SHUT posi- tion	Valves in OFEN po- sition	Point to be con- nected to hydraulic ram
1	Fore portion of air pipe line	5, 6	19, 20 ^x)	
2	Aft portion of air pipe line	7 , 8	19 , 20 ^{xx})	
3	Water pipe line of port tanks	2, 4, 12	22	Pipe unions
4	Water pipe line of starboard tanks	1, 3, 1 2	21	for arein

- x) The handles of control valves 19, 20 are set to the AIR TO BOW VENTING OF STERN position.
- EXT) The handles of control valves 19, 20 are devite the AIR PO STERM VENDING OF BOW position.

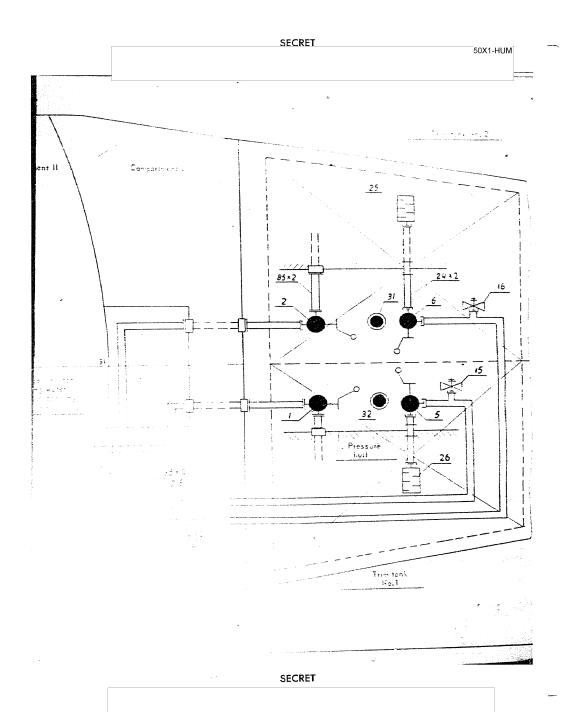
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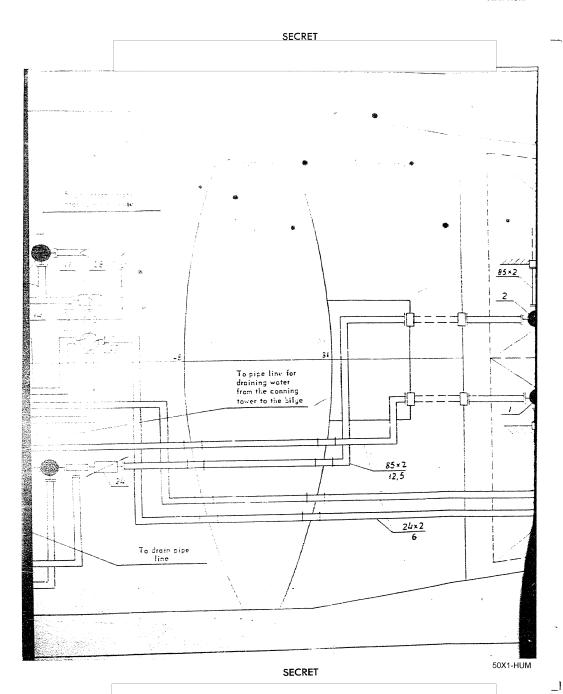
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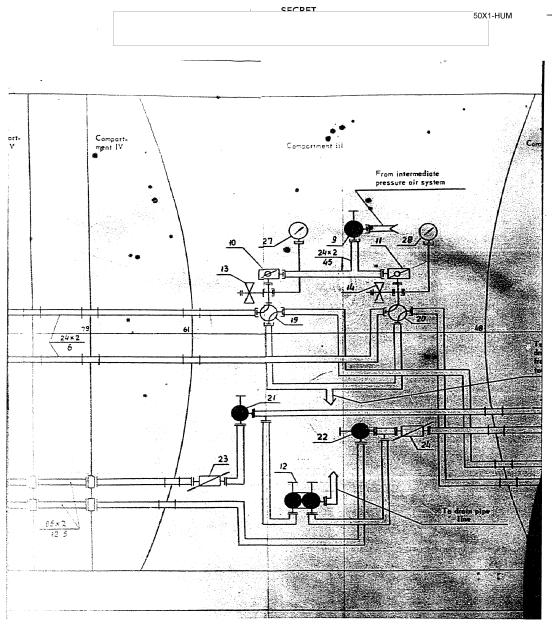
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50X1-HUM Appendix 1 25 TRIM SYSTEM SCHEMATIC DIAGRAM Refs Description Symbols 1, 2, 3, 4, 5, 6, 7, 8 Shut-off valve staled in OPEN position Shut-off valve Pressure-reducing valve Two-valve manifold with shut-off valves 13, 14, 15, Safety volve 16, 17, 18 枣 Coatrol valve Pressure gouge torit diameter start for **SECRET**

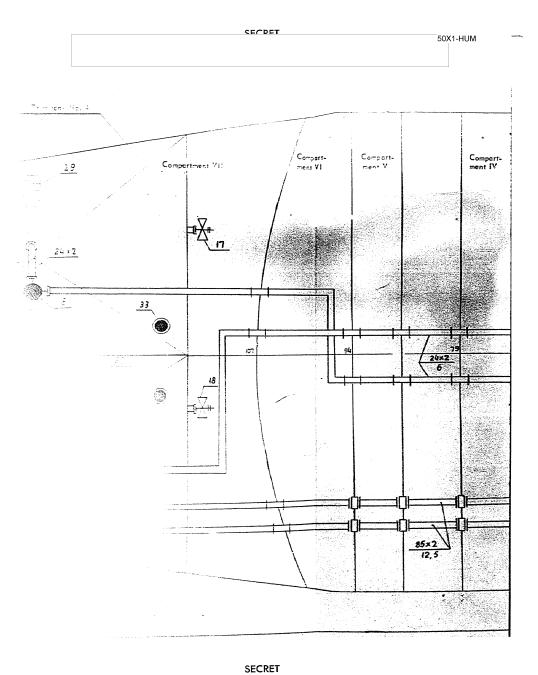
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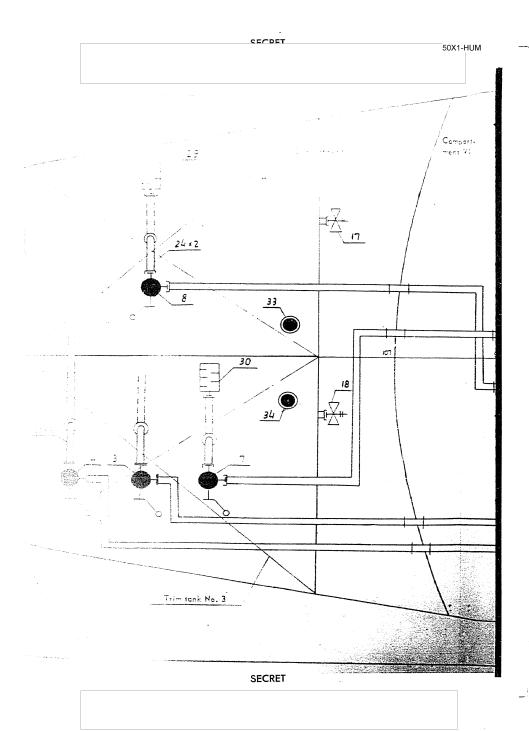


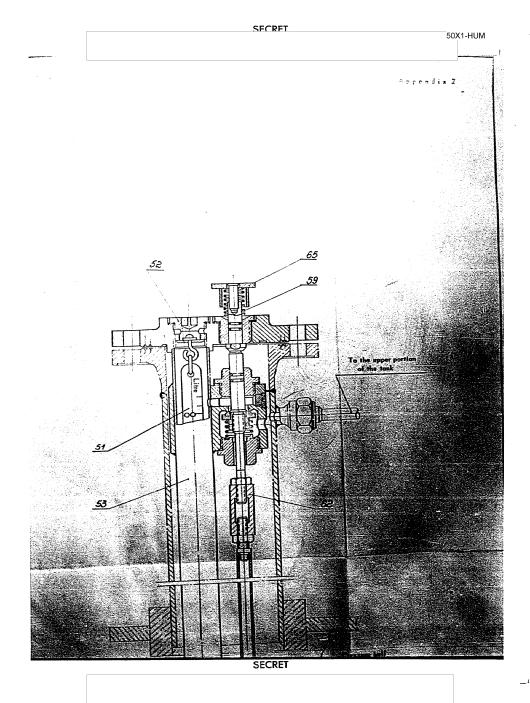


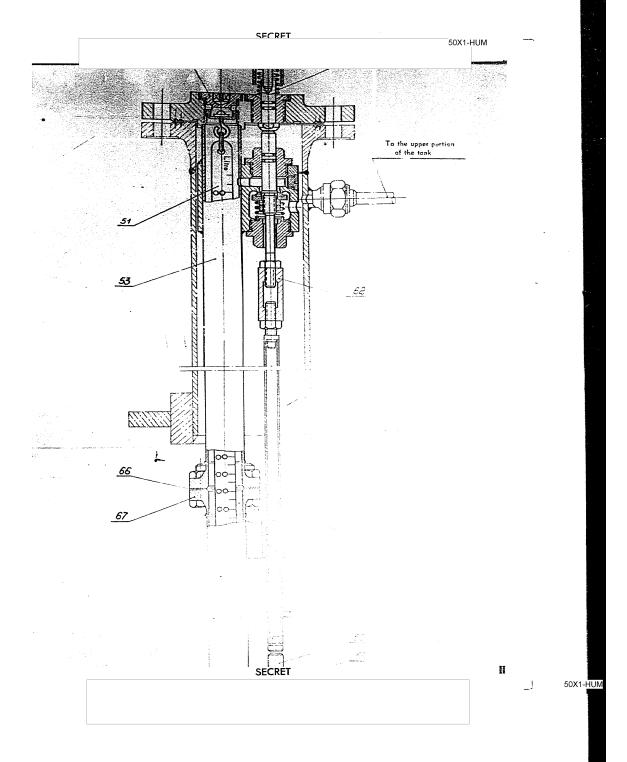
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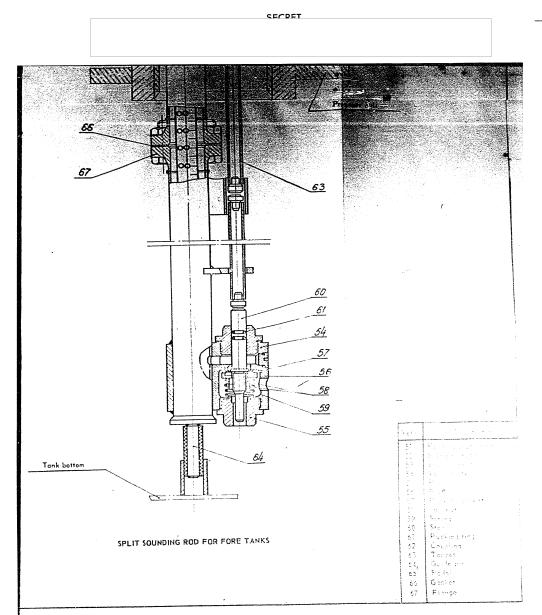
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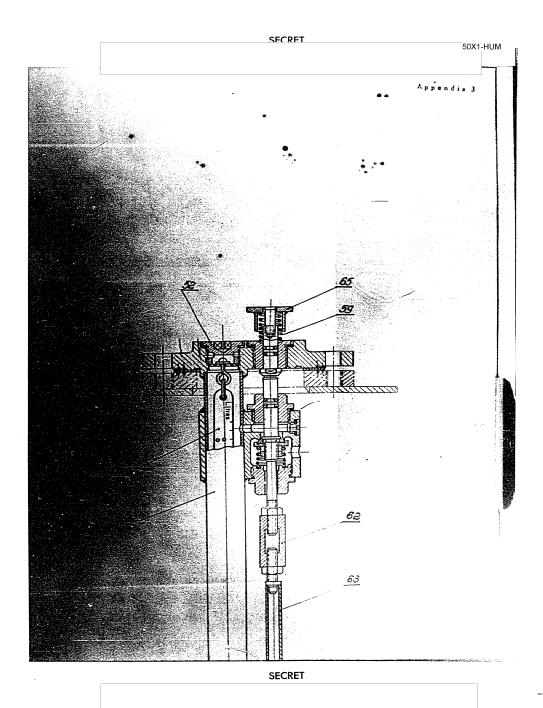


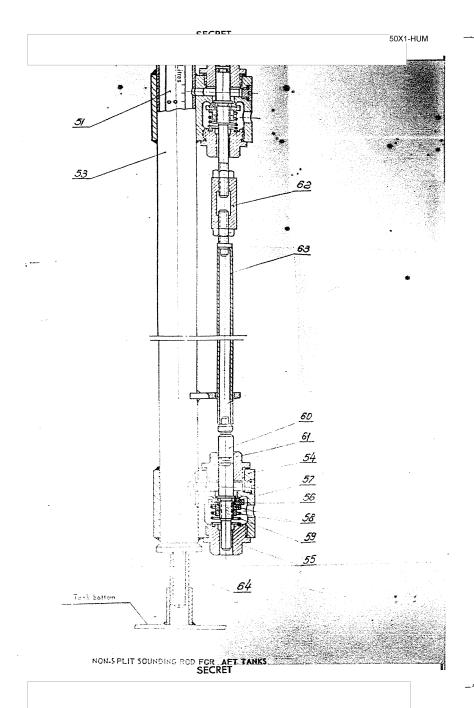
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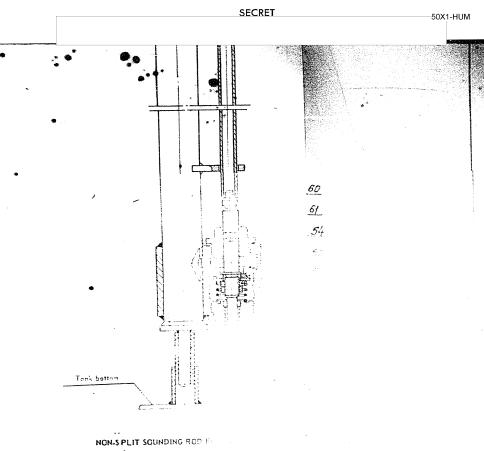


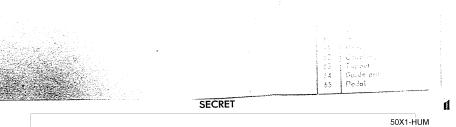
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